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APPLICATION NO.	F	TILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,699 02/09/2004		02/09/2004	Anatoli V. Melechko	UBAT1550	7366
48958	7590 03/09/2006		EXAMINER		
JOHN BRI		-	SPEER, TIMOTHY M		
5708 BACK BAY LANE AUSTIN, TX 78739-1723				ART UNIT	PAPER NUMBER
			1775		
			DATE MAILED: 03/09/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Commence	10/774,699	MELECHKO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Timothy M. Speer	1775					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 20 De	ecember 2005.						
3) Since this application is in condition for allowan		secution as to the merits is					
closed in accordance with the practice under E							
Disposition of Claims							
4)⊠ Claim(s) <u>18-25</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>20 and 21</u> is/are allowed.							
6)⊠ Claim(s) <u>18,19 and 23-25</u> is/are rejected.							
7) Claim(s) is/are objected to.							
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Application Papers							
9) The specification is objected to by the Examine							
10)⊠ The drawing(s) filed on <u>09 February 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the	Irawing(s) be held in abeyance. See	37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/28/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:						

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DETAILED ACTION

Election

1. Applicant's election without traverse of species I in the reply filed on 12/20/05 is acknowledged.

Information Disclosure Statement

- 2. The information disclosure statement filed 11/28/has been considered. A copy of the 1449 initialed, dated and signed by the Examiner is included herewith.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 18, and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Guillom (2002/0175323).

Guillom teaches an apparatus comprising a nanotube (nanoconduit) coupled to the surface of a substrate, wherein the substrate defines an aperture. The nanotube is contiguous with the aperture and substantially nonparallel (perpendicular) to the substrate surface. See figure 1 and accompanying text).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guillom (2002/0175323).

Guillom was discussed above and fails explicitly to recite the presently claimed nanotube and aperture shapes. However, it has been held that a change in shape does not impart patentability to a claimed product. Guillom teaches an aperture and nanotube construction. To configure the aperture and nanotube into a desired shape for a particular intended use is well within the purview of the ordinary artisan and, accordingly, is considered to be prima facie obvious in view of the teachings of Guillom.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy M. Speer whose telephone number is 571-272-8385. The examiner can normally be reached on M-Th, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on 571-272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 1775

Timothy M. Speer

JOHN J. ZIMMERMAN FRIMARY EXAMINER